

Author Index for Volumes 39-42

- Aase, J. K.: *See* Wiegand, C. L.
- Abderrahman, W. A., Bader, T. A.: Remote Sensing Application to the Management of Agricultural Drainage Water in Severely Arid Region: A Case Study, 42:239
- Alley, R. E.: *See* Kahle, A. B.
- Asrar, G.: *See* Myneni, R. B.
- Asrar, G., Myneni, R. B., Choudhury, B. J.: Spatial Heterogeneity in Vegetation Canopies and Remote Sensing of Absorbed Photosynthetically Active Radiation: A Modeling Study, 41:85
- Atkinson, P. M., Webster, R., Curran, P. J.: Cokriging with Ground-Based Radiometry, 41:45
- Bader, T. A.: *See* Abderrahman, W. A.
- Bailey, C. L.: *See* Pope, K. O.
- Baret, F.: *See* Jacquemoud, S.
- Baret, F., Jacquemoud, S., Guyot, G., Leprieux, C.: Modeled Analysis of the Biophysical Nature of Spectral Shifts and Comparison with Information Content of Broad Bands, 41:133
- Barker, H. W., Davies, J. A.: Cumulus Cloud Radiative Properties and the Characteristics of Satellite Radiance Wavenumber Spectra, 42:51
- Barre, N.: *See* Hugh-Jones, M.
- Bégué, A.: Modeling Hemispherical and Directional Radiative Fluxes in Regular-Clumped Canopies, 40:219
- Bellan, M. F.: *See* Blasco, F.
- Berry, J. A.: *See* Sellers, P. J.
- Bindschadler, R., Vornberger, P.: Interpretation of SAR Imagery of the Greenland Ice Sheet Using Coregistered TM Imagery, 42:167
- Bindschadler, R. A.: *See* Scambos, T. A.
- Birney, K.: *See* Pope, K. O.
- Blad, B. L.: *See* Major, D. J.
- Blasco, F., Bellan, M. F., Chaudhury, M. U.: Estimating the Extent of Floods in Bangladesh Using SPOT DATA, 39:167
- Borgesius, J. J.: *See* Rosema, A.
- Bouman, B. A. M., Uenk, D.: Crop Classification Possibilities with Radar in ERS-1 and JERS-1 Configuration, 40:1
- Caselles, V., Sobrino, J. A., Coll, C.: A Physical Model for Interpreting the Land Surface Temperature Obtained by Remote Sensors over Incomplete Canopies, 39:203
- Catts, G. P.: *See* Czaplowski, R. L.
- Chappelle, E. W., Kim, M. S., McMurtrey, J. E., III: Ratio Analysis of Reflectance Spectra (RARS): An Algorithm for the Remote Estimation of the Concentrations of Chlorophyll A, Chlorophyll B, and Carotenoids in Soybean Leaves, 39:239
- Chaudhury, M. U.: *See* Blasco, F.
- Che, N., Price, J. C.: Survey of Radiometric Calibration Results and Methods for Visible and Near Infrared Channels of NOAA-7, -9, and -11 AVHRRs, 41:19
- Chehbouni, A.: *See* Huete, A. R.
- Chen, Z., Curran, P. J., Hansom, J. D.: Derivative Reflectance Spectroscopy to Estimate Suspended Sediment Concentration, 40:67
- Chorowicz, J.: *See* Mekarnia, A.
- Chorowicz, J., Deffontaines, B., Huaman-Rodrigo, D., Guiland, R., Leguenn, F., Thouret, J. C.: SPOT Satellite Monitoring of the Eruption of Nevado Sabancaya Volcano (Southern Peru), 42:43
- Choudhury, B. J.: *See* Asrar, G.
- Clarke, T. R.: *See* Jackson, R. D.
- Cohen, W. B., Spies, T. A.: Estimating Structural Attributes of Douglas-Fir/Western Hemlock Forest Stands from Landsat and SPOT Imagery, 41:1
- Coll, C.: *See* Caselles, V.
- Collatz, G. J.: *See* Sellers, P. J.
- Conese, C., Maselli, F.: Use of Error Matrices to Improve Area Estimates with Maximum Likelihood Classification Procedures, 40:113
- Curran, P. J.: *See* Atkinson, P. M.
- Curran, P. J.: *See* Chen, Z.
- Curran, P. J., Dungan, J. L., Gholz, H. L.: Seasonal LAI in Slash Pine Estimated with Landsat TM, 39:3
- Curran, P. J., Dungan, J. L., Macler, B. A., Plummer, S. E., Peterson, D. L.: Reflectance Spectroscopy of Fresh Whole Leaves for the Estimation of Chemical Concentration, 39:153
- Czaplowski, R. L., Catts, G. P.: Calibration of Remotely Sensed Proportion or Area Estimates for Misclassification Error, 39:29
- D'Aria, D. M.: *See* Salisbury, J. W.
- Daughtry, C. S. T., Gallo, K. P., Goward, S. N., Prince, S. D., Kustas, W. P.: Spectral Estimates of Absorbed Radiation and Phytomass Production in Corn and Soybean Canopies, 39:141
- Davies, J. A.: *See* Barker, H. W.
- Deering, D. W.: *See* Kimes, D. S.
- Deffontaines, B.: *See* Chorowicz, J.
- Dekker, A. G., Malthus, T. J., Wijnen, M. M., Seyhan, E.: The Effect of Spectral Bandwidth and Positioning on the Spectral Signature Analysis of Inland Waters, 41:211
- Deuzé, J. L.: *See* Santer, R.
- Devaux, C.: *See* Santer, R.
- Dungan, J. L.: *See* Curran, P. J.
- Dusek, D.: *See* Richardson, A. J.
- Dutkiewicz, M. J.: *See* Scambos, T. A.

- Dymond, J. R.: Nonparametric Modeling of Radiance in Hill Country for Digital Classification of Aerial Photographs, 39:95
- Eppler, D. T., Full, W. E.: Polynomial Trend Surface Analysis Applied to AVHRR Images to Improve Definition of Arctic Leads, 40:197
- Esaias, W. E.: See Harding, L. W., Jr.
- Field, C. B.: See Gamon, J. A.
- Field, C. B.: See Sellers, P. J.
- Forgan, B. W.: See Mitchell, R. M.
- Full, W. E.: See Eppler, D. T.
- Fulton, R.: See Heymsfield, G. M.
- Gabell, A. R.: See Hook, S. J.
- Gaddis, L.: See Lancaster, N.
- Gallie, E. A., Murtha, P. A.: Specific Absorption and Backscattering Spectra for Suspended Minerals and Chlorophyll-a in Chilko Lake, British Columbia, 39:103
- Gallo, K. P.: See Daughtry, C. S. T.
- Gamon, J. A., Peñuelas, J., Field, C. B.: A Narrow-Waveband Spectral Index That Tracks Diurnal Changes in Photosynthetic Efficiency, 41:35
- Ganapol, B. D.: See Myneni, R. B.
- Ganapol, B. D., Myneni, R. B.: The F_N Method for the One-Angle Radiative Transfer Equation Applied to Plant Canopies, 39:213
- Garris, G.: See Hugh-Jones, M.
- Garvin, J.: See Hugh-Jones, M.
- Georg, R.: See Klaas, K. D.
- Gholz, H. L.: See Curran, P. J.
- Gillespie, A. R.: Enhancement of Multispectral Thermal Infrared Images: Decorrelation Contrast Stretching, 42:147
- Gillespie, A. R.: Spectral Mixture Analysis of Multispectral Thermal Infrared Images, 42:137
- Gomasasca, M. A.: See Zilioli, E.
- Gong, P., Marceau, D. J., Howarth, P. J.: A Comparison of Spatial Feature Extraction Algorithms for Land Use Classification with SPOT HRV Data, 40:137
- Goward, S. N.: See Daughtry, C. S. T.
- Goward, S. N., Huemmrich, K. F.: Vegetation Canopy PAR Absorptance and the Normalized Difference Vegetation Index: An Assessment Using the SAIL Model, 39:119
- Greeley, R.: See Lancaster, N.
- Green, A. A.: See Hook, S. J.
- Gu, X. F.: See Santer, R.
- Guillande, R.: See Chorowicz, J.
- Guyot, G.: See Baret, F.
- Guyot, G.: See Santer, R.
- Hall, F. G.: See Myneni, R. B.
- Hall, F. G.: See Sellers, P. J.
- Hanocq, J. F.: See Jacquemoud, S.
- Hansom, J. D.: See Chen, Z.
- Harding, L. W., Jr., Itsweire, E. C., Esaias, W. E.: Determination of Phytoplankton Chlorophyll Concentrations in the Chesapeake Bay with Aircraft Remote Sensing, 40:79
- Harrington, J. A., Jr., Schiebe, F. R., Nix, J. F.: Remote Sensing of Lake Chicot, Arkansas: Monitoring Suspended Sediments, Turbidity, and Secchi Depth with Landsat MSS Data, 39:15
- Hatfield, J. L.: See Wiegand, C. L.
- Heymsfield, G. M., Fulton, R.: Modulation of SSM/I Microwave Soil Radiances by Rainfall, 39:187
- Hook, S. J., Gabell, A. R., Green, A. A., Kealy, P. S.: A Comparison of Techniques for Extracting Emissivity Information from Thermal Infrared Data for Geologic Studies, 42:123
- Hoque, E., Hutzler, P. J. S.: Spectral Blue-Shift of Red Edge Monitors Damage Class of Beech Trees, 39:81
- Howarth, P. J.: See Gong, P.
- Howarth, P. J.: See Treitz, P. M.
- Hua, G.: See Huete, A. R.
- Huaman-Rodrigo, D.: See Chorowicz, J.
- Huemmrich, K. F.: See Goward, S. N.
- Huete, A. R., Hua, G., Qi, J., Chehbouni, A., van Leeuwen, W. J. D.: Normalization of Multidirectional Red and NIR Reflectances with the SAVI, 41:143
- Hugh-Jones, M., Barre, N., Nelson, G., Wehnes, K., Warner, J., Garvin, J., Garris, G.: Landsat-TM Identification of *Amblyomma variegatum* (Acari: Ixodidae) Habitats in Guadeloupe, 40:43
- Hutzler, P. J. S.: See Hoque, E.
- Imbernon, J.: See Kerr, Y. H.
- Itsweire, E. C.: See Harding, L. W., Jr.
- Jackson, R. D.: See Moran, M. S.
- Jackson, R. D.: See Wiegand, C. L.
- Jackson, R. D., Clarke, T. R., Moran, M. S.: Bidirectional Calibration Results for 11 Spectralon and 16 BaSO₄ Reference Reflectance Panels, 40:231
- Jacquemoud, S.: See Baret, F.
- Jacquemoud, S., Baret, F., Hanocq, J. F.: Modeling Spectral and Bidirectional Soil Reflectance, 41:123
- Kahle, A. B., Alley, R. E.: Separation of Temperature and Emissivity in Remotely Sensed Radiance Measurements, 42:107
- Kanemasu, E. T.: See Wiegand, C. L.
- Kasischke, E. S.: See Pope, K. O.
- Kealy, P. S.: See Hook, S. J.
- Kerr, Y. H., Lagouarde, J. P., Imbernon, J.: Accurate Land Surface Temperature Retrieval from AVHRR Data with Use of an Improved Split Window Algorithm, 41:197
- Kim, M. S.: See Chappelle, E. W.
- Kimes, D. S., Deering, D. W.: Remote Sensing of Surface Hemispherical Reflectance (Albedo) Using Pointable Multispectral Imaging Spectroradiometers, 39:85

- Klaes, K. D., Georg, R.: An Efficient Algorithm to Process NOAA-AVHRR Data in Real Time, 39:75
- Knyazikhin, Y. V., Marshak, A. L., Myneni, R. B.: Interaction of Photons in a Canopy of Finite Dimensional Leaves, 39:61
- Kustas, W. P.: *See* Daughtry, C. S. T.
- Lacaze, B.: *See* Olioso, A.
- Lagouarde, J. P.: *See* Kerr, Y. H.
- Lancaster, N., Gaddis, L., Greeley, R.: New Airborne Imaging Radar Observations of Sand Dunes: Kelso Dunes, California, 39:233
- Lapitan, R. L.: *See* Wiegand, C. L.
- Leckie, D. G., Yuan, X., Ostaff, D. P., Piene, H., MacLean, D. A.: Analysis of High Resolution Multispectral MEIS Imagery for Spruce Budworm Damage Assessment on a Single Tree Basis, 40:125
- Leguern, F.: *See* Chorowicz, J.
- Leprieur, C.: *See* Baret, F.
- Linthicum, K. J.: *See* Pope, K. O.
- Logan, T. M.: *See* Pope, K. O.
- Maas, S. J.: *See* Wiegand, C. L.
- MacLean, D. A.: *See* Leckie, D. G.
- Macler, B. A.: *See* Curran, P. J.
- Major, D. J., Schaalje, G. B., Wiegand, C., Blad, B. L.: Accuracy and Sensitivity Analyses of SAIL Model-Predicted Reflectance of Maize, 41:61
- Malthus, T. J.: *See* Dekker, A. G.
- Marceau, D. J.: *See* Gong, P.
- Marshak, A. L.: *See* Knyazikhin, Y. V.
- Maselli, F.: *See* Conese, C.
- Masuda, K., Takashima, T.: Feasibility Study of Derivation of Cirrus Information Using Polarimetric Measurements from Satellite, 39:45
- McMurtrey, J. E., III: *See* Chappelle, E. W.
- Mekarnia, A., Chorowicz, J.: Geological Analysis of SPOT Imagery at the 1:25,000 Scale: Example of the Eastern Part of the Gabian Petroleum Structure in Southeastern France, 39:179
- Méthy, M.: *See* Olioso, A.
- Mitchell, R. M., O'Brien, D. M., Forgan, B. W.: Calibration of the NOAA AVHRR Shortwave Channels Using Split Pass Imagery: I. Pilot Study, 40:57
- Moran, M. S.: *See* Jackson, R. D.
- Moran, M. S., Jackson, R. D., Slater, P. N., Teillet, P. M.: Evaluation of Simplified Procedures for Retrieval of Land Surface Reflectance Factors from Satellite Sensor Output, 41:169
- Murtha, P. A.: *See* Gallie, E. A.
- Myneni, R. B.: *See* Asrar, G.
- Myneni, R. B.: *See* Ganapol, B. D.
- Myneni, R. B.: *See* Knyazikhin, Y. V.
- Myneni, R. B., Asrar, G., Hall, F. G.: A Three-Dimensional Radiative Transfer Method for Optical Remote Sensing of Vegetated Land Surfaces, 41:105
- Myneni, R. B., Ganapol, B. D.: Remote Sensing of Vegetation Canopy Photosynthetic and Stomatal Conductance Efficiencies, 42:217
- Nelson, G.: *See* Hugh-Jones, M.
- Nix, J. F.: *See* Harrington, J. A., Jr.
- Njogu, A. R.: *See* Pope, K. O.
- Noorbergen, H.: *See* Rosema, A.
- O'Brien, D. M.: *See* Mitchell, R. M.
- Olioso, A., Méthy, M., Lacaze, B.: Simulation of Canopy Fluorescence as a Function of Canopy Structure and Leaf Fluorescence, 41:239
- Ostaff, D. P.: *See* Leckie, D. G.
- Otlé, C., Vidal-Madjar, D.: Estimation of Land Surface Temperature with NOAA9 Data, 40:27
- Paloscia, S., Pampaloni, P.: Microwave Vegetation Indexes for Detecting Biomass and Water Conditions of Agricultural Crops, 40:15
- Pampaloni, P.: *See* Paloscia, S.
- Péñuelas, J.: *See* Gamon, J. A.
- Peterson, D. L.: *See* Curran, P. J.
- Piene, H.: *See* Leckie, D. G.
- Pinter, P. J., Jr.: *See* Wiegand, C. L.
- Pinty, B., Verstraete, M. M.: On the Design and Validation of Surface Bidirectional Reflectance and Albedo Models, 41:155
- Plummer, S. E.: *See* Curran, P. J.
- Pope, K. O., Sheffner, E. J., Linthicum, K. J., Bailey, C. L., Logan, T. M., Kasischke, E. S., Birney, K., Njogu, A. R., Roberts, C. R.: Identification of Central Kenyan Rift Valley Fever Virus Vector Habitats with Landsat TM and Evaluation of Their Flooding Status with Airborne Imaging Radar, 40:185
- Price, J. C.: Estimating Vegetation Amount from Visible and Near Infrared Reflectances, 41:29
- Price, J. C.: *See* Che, N.
- Prince, S. D.: *See* Daughtry, C. S. T.
- Qi, J.: *See* Huete, A. R.
- Raffy, M.: Change of Scale in Models of Remote Sensing: A General Method for Spatialization of Models, 40:101
- Richardson, A. J., Wiegand, C. L., Wanjura, D. F., Dusek, D., Steiner, J. L.: Multisite Analyses of Spectral-Biophysical Data for Sorghum, 41:71
- Roberts, C. R.: *See* Pope, K. O.
- Rosema, A., Verhoef, W., Noorbergen, H., Borgesius, J. J.: A New Forest Light Interaction Model in Support of Forest Monitoring, 42:23
- Salisbury, J. W., D'Aria, D. M.: Emissivity of Terrestrial Materials in

- the 8–14 μm Atmospheric Window, 42:83
- Salisbury, J. W., D'Aria, D. M.: Infrared (8–14 μm) Remote Sensing of Soil Particle Size, 42:157
- Santer, R., Gu, X. F., Guyot, G., Deuzé, J. L., Devaux, C., Vermote, E., Verbrugge, M.: SPOT Calibration at the La Crau Test Site (France), 41:227
- Scambos, T. A., Dutkiewicz, M. J., Wilson, J. C., Bindshadler, R. A.: Application of Image Cross-Correlation to the Measurement of Glacier Velocity Using Satellite Image Data, 42:177
- Schaalje, G. B.: *See* Major, D. J.
- Schiebe, F. R.: *See* Harrington, J. A., Jr.
- Sellers, P. J., Berry, J. A., Collatz, G. J., Field, C. B., Hall, F. G.: Canopy Reflectance, Photosynthesis, and Transpiration. III. A Reanalysis Using Improved Leaf Models and a New Canopy Integration Scheme., 42:187
- Seyhan, E.: *See* Dekker, A. G.
- Sheffner, E. J.: *See* Pope, K. O.
- Simpson, J. J.: Image Masking Using Polygon Fills and Morphological Transformations, 40:161
- Slater, P. N.: *See* Moran, M. S.
- Smith, P.: *See* Treitz, P. M.
- Sobrinho, J. A.: *See* Caselles, V.
- Spies, T. A.: *See* Cohen, W. B.
- Steiner, J. L.: *See* Richardson, A. J.
- Suffling, R. C.: *See* Treitz, P. M.
- Takashima, T.: *See* Masuda, K.
- Teillet, P. M.: An Algorithm for the Radiometric and Atmospheric Correction of AVHRR Data in the Solar Reflective Channels, 41:185
- Teillet, P. M.: *See* Moran, M. S.
- Thouret, J. C.: *See* Chorowicz, J.
- Tomasoni, R.: *See* Zilioli, E.
- Treitz, P. M., Howarth, P. J., Suffling, R. C., Smith, P.: Application of Detailed Ground Information to Vegetation Mapping with High Spatial Resolution Digital Imagery, 42:65
- Uenk, D.: *See* Bouman, B. A. M.
- van Leeuwen, W. J. D.: *See* Huete, A. R.
- Verbrugge, M.: *See* Santer, R.
- Verhoef, W.: *See* Rosema, A.
- Vermote, E.: *See* Santer, R.
- Verstraete, M. M.: *See* Pinty, B.
- Vidal-Madjar, D.: *See* Otlál, C.
- Vornberger, P.: *See* Bindshadler, R.
- Wanjura, D. F.: *See* Richardson, A. J.
- Warner, J.: *See* Hugh-Jones, M.
- Watson, K.: Spectral Radio Method for Measuring Emissivity, 42:113
- Watson, K.: Two-Temperature Method for Measuring Emissivity, 42:117
- Webster, R.: *See* Atkinson, P. M.
- Wehnes, K.: *See* Hugh-Jones, M.
- Wiegand, C.: *See* Major, D. J.
- Wiegand, C. L.: *See* Richardson, A. J.
- Wiegand, C. L., Maas, S. J., Aase, J. K., Hatfield, J. L., Pinter, P. J., Jr., Jackson, R. D., Kanemasu, E. T., Lapitan, R. L.: Multisite Analyses of Spectral-Biophysical Data for Wheat, 42:1
- Wijnen, M. M.: *See* Dekker, A. G.
- Wilson, J. C.: *See* Scambos, T. A.
- Yuan, X.: *See* Leckie, D. G.
- Zilioli, E., Gomasasca, M. A., Tomasoni, R.: Application of Terrestrial Thermography to the Detection of Waste Disposal Sites, 40:153

Subject Index for Volumes 39-42

Albedo

On the Design and Validation of Surface Bidirectional Reflectance and Albedo Models, B. Pinty and M. M. Verstraete, 41:155

Remote Sensing of Surface Hemispherical Reflectance (Albedo) Using Pointable Multispectral Imaging Spectroradiometers, D. S. Kimes and D. W. Deering, 39:85

Area Estimation

Calibration of Remotely Sensed Proportion or Area Estimates for Misclassification Error, R. L. Czaplewski and G. P. Catts, 39:29
Use of Error Matrices to Improve Area Estimates with Maximum Likelihood Classification Procedures, C. Conese and F. Maselli, 40:113

Atmospheric Effects

An Algorithm for the Radiometric and Atmospheric Correction of AVHRR Data in the Solar Reflective Channels, P. M. Teillet, 41:185

Evaluation of Simplified Procedures for Retrieval of Land Surface Reflectance Factors from Satellite Sensor Output, M. S. Moran, R. D. Jackson, P. N. Slater, and P. M. Teillet, 41:169

AVHRR

Accurate Land Surface Temperature Retrieval from AVHRR Data with Use of an Improved Split Window Algorithm, Y. H. Kerr, J. P. Lagouarde, and J. Imbernon, 41:197

An Algorithm for the Radiometric and Atmospheric Correction of AVHRR Data in the Solar Reflective Channels, P. M. Teillet, 41:185

Calibration of the NOAA AVHRR Shortwave Channels Using Split Pass Imagery: I. Pilot Study, R. M. Mitchell, D. M. O'Brien, and B. W. Forgan, 40:57

An Efficient Algorithm to Process NOAA-AVHRR Data in Real Time, K. D. Klaes and R. Georg, 39:75

Estimation of Land Surface Temperature with NOAA9 Data, C. Ottlé and D. Vidal-Madjar, 40:27

Polynomial Trend Surface Analysis Applied to AVHRR Images to Improve Definition of Arctic Leads, D. T. Eppler and W. E. Full, 40:197

Survey of Radiometric Calibration Results and Methods for Visible and Near Infrared Channels of NOAA-7, -9, and -11 AVHRRs, N. Che and J. C. Price, 41:19

Canopies

Accuracy and Sensitivity Analyses of SAIL Model-Predicted Reflectance of Maize, D. J. Major, G. B. Schaalje, C. Wiegand, and B. L. Blad, 41:61

Canopy Reflectance, Photosynthesis, and Transpiration.

III. A Reanalysis Using Improved Leaf Models and a New Canopy Integration Scheme, P. J. Sellers, J. A. Berry, G. J. Collatz, C. B. Field, and F. G. Hall, 42:187

The F_N Method for the One-Angle Radiative Transfer Equation Applied to Plant Canopies, B. D. Ganapol and R. B. Myneni, 39:213

Interaction of Photons in a Canopy of Finite-Dimensional Leaves, Y. V. Knyazikhin, A. L. Marshak, and R. B. Myneni, 39: 61

Modeling Hemispherical and Directional Radiative Fluxes in Regular-Clumped Canopies, A. Bégué, 40:219

Multisite Analyses of Spectral-Biophysical Data for Sorghum, A. J. Richardson, C. L. Wiegand, D. F. Wanjura, D. Dusek, and J. L. Steiner, 41:71

Multisite Analyses of Spectral-Biophysical Data for Wheat, C. L. Wiegand, S. J. Maas, J. K. Aase, J. L. Hatfield, P. J. Pinter, Jr., R. D. Jackson, E. T. Kanemasu, and R. L. Lapitan, 42:1

A Physical Model for Interpreting the Land Surface Temperature Obtained by Remote Sensors over Incomplete Canopies, V. Caselles, J. A. Sobrino, and C. Coll, 39:203

Remote Sensing of Vegetation Canopy Photosynthetic and Stomatal Conductance Efficiencies, R. B. Myneni, B. D. Ganapol, and G. Asrar, 42:217

Simulation of Canopy Fluorescence as a Function of Canopy Structure and Leaf Fluorescence, A. Olioso, M. Méthy, and B. Lacaze, 41:239

Spatial Heterogeneity in Vegetation Canopies and Remote Sensing of Absorbed Photosynthetically Active Radiation: A Modeling Study, G. Asrar, R. B. Myneni, and B. J. Choudhury, 41:85

Spectral Estimates of Absorbed Radiation and Phytomass Production in Corn and Soybean Canopies, C. S. T. Daughtry, K. P. Gallo, S. N. Goward, S. D. Prince, and W. P. Kustas, 39:141

A Three-Dimensional Radiative Transfer Method for Optical Remote Sensing of Vegetated Land Surfaces, R. B. Myneni, G. Asrar, and F. G. Hall, 41:105

Vegetation Canopy PAR Absorbance and the Normalized Difference Vegetation Index: An Assessment Using the SAIL Model, S. N. Goward and K. F. Huemmrich, 39:119

Crop

Accuracy and Sensitivity Analyses of SAIL Model-Predicted Reflectance of Maize, D. J. Major, G. B. Schaalje, C. Wiegand, and B. L. Blad, 41:61

Crop Classification Possibilities with Radar in ERS-1 and JERS-1 Configuration, B. A. M. Bouman and D. Uenk, 40:1

Microwave Vegetation Indexes for Detecting Biomass and Water

Conditions of Agricultural Crops, S. Paloscia and P. Pampaloni, 40:15

Multisite Analyses of Spectral-Biophysical Data for Sorghum, A. J. Richardson, C. L. Wiegand, D. F. Wanjura, D. Dusek, and J. L. Steiner, 41:71

Multisite Analyses of Spectral-Biophysical Data for Wheat, C. L. Wiegand, S. J. Maas, J. K. Aase, J. L. Hatfield, P. J. Pinter, Jr., R. D. Jackson, E. T. Kanemasu, and R. L. Lapitan, 42:1

Emissivity

A Comparison of Techniques for Extracting Emissivity Information from Thermal Infrared Data for Geologic Studies, S. J. Hook, A. R. Gabell, A. A. Green, and P. S. Kealy, 42:123

Emissivity of Terrestrial Materials in the 8–14 μm Atmospheric Window, J. W. Salisbury and D. M. D'Aria, 42:83

Separation of Temperature and Emittance in Remotely Sensed Radiance Measurements, A. B. Kahle and R. E. Alley, 42:107

Spectral Ratio Method for Measuring Emissivity, K. Watson, 42:113

Two-Temperature Method for Measuring Emissivity, K. Watson, 42:117

Fluorescence

Simulation of Canopy Fluorescence as a Function of Canopy Structure and Leaf Fluorescence, A. Olioso, M. Méthy, and B. Lacaze, 41:239

Forests

Estimating Structural Attributes of Douglas-Fir/Western Hemlock Forest Stands from Landsat and SPOT Imagery, W. B. Cohen and T. A. Spies, 41:1

A New Forest Light Interaction Model in Support of Forest Monitoring, A. Rosema, W. Verhoef, H. Noorbergen, and J. J. Borgesius, 42:23

Remote Sensing of Lake Chicot, Arkansas: Monitoring Suspended Sediments, Turbidity, and Secchi Depth with Landsat MSS Data, J. A. Harrington, Jr., F. R. Schiebe, and J. F. Nix, 39:15

Seasonal LAI in Slash Pine Estimated with Landsat TM, P. J. Curran, J. L. Dungan, and H. L. Gholz, 39:3

Geology

A Comparison of Techniques for Extracting Emissivity Information from Thermal Infrared Data for Geologic Studies, S. J. Hook, A. R. Gabell, A. A. Green, and P. S. Kealy, 42:123

Geological Analysis of SPOT Imagery at the 1:25,000 Scale: Example of the Eastern Part of the Gabian Petroleum Structure in Southeastern France, A. Mekarnia and J. Chorowicz, 39:179

Habitat Classification

Identification of Central Kenyan Rift Valley Fever Virus Vector Habitats with Landsat TM and Evaluation of Their Flooding Status with Airborne Imaging Radar, K. O. Pope, E. J. Sheffner,

K. J. Linthicum, C. L. Bailey, T. M. Logan, E. S. Kasischke, K. Birney, A. R. Njogu, and C. R. Roberts, 40:185

Landsat-TM Identification of *Amblyomma variegatum* (Acari: Ixodidae) Habitats in Guadeloupe, M. Hugh-Jones, N. Barre, G. Nelson, K. Wehnes, J. Warner, J. Garvin, and G. Garriss, 40:43

Hydrology

Estimating the Extent of Floods in Bangladesh Using SPOT DATA, F. Blasco, M. F. Bellan, and M. U. Chaudhury, 39:167

Remote Sensing Application to the Management of Agricultural Drainage Water in Severely Arid Region: A Case Study, W. A. Abderrahman and T. A. Bader, 42:239

Ice

Application of Image Cross-Correlation to the Measurement of Glacier Velocity Using Satellite Image Data, T. A. Scambos, M. J. Dutkiewicz, J. C. Wilson, and R. A. Bindschadler, 42:177

Interpretation of SAR Imagery of the Greenland Ice Sheet Using Coregistered TM Imagery, R. Bindschadler and P. Vornberger, 42:167

Polynomial Trend Surface Analysis Applied to AVHRR Images to Improve Definition of Arctic Leads, D. T. Eppler and W. E. Full, 40:197

Image Processing

Accurate Land Surface Temperature Retrieval from AVHRR Data with Use of an Improved Split Window Algorithm, Y. H. Kerr, J. P. Lagouarde, and J. Imbernon, 41:197

Application of Image Cross-Correlation to the Measurement of Glacier Velocity Using Satellite Image Data, T. A. Scambos, M. J. Dutkiewicz, J. C. Wilson, and R. A. Bindschadler, 42:177

Calibration of the NOAA AVHRR Shortwave Channels Using Split Pass Imagery: I. Pilot Study, R. M. Mitchell, D. M. O'Brien, and B. W. Forgan, 40:57

Enhancement of Multispectral Thermal Infrared Images: Decorrelation Contrast Stretching, A. R. Gillespie, 42:147

Image Masking Using Polygon Fills and Morphological Transformations, J. J. Simpson, 40:161

Polynomial Trend Surface Analysis Applied to AVHRR Images to Improve Definition of Arctic Leads, D. T. Eppler and W. E. Full, 40:197

Spectral Mixture Analysis of Multispectral Thermal Infrared Images, A. R. Gillespie, 42:137

Land Classification

Application of Detailed Ground Information to Vegetation Mapping with High Spatial Resolution Digital Imagery, P. M. Treitz, P. J. Howarth, R. C. Suffling, and P. Smith, 42:65

Nonparametric Modeling of Radiance in Hill Country for Digital Classification of Aerial Photographs, J. R. Dymond, 39:95

Landsat

- Application of Image Cross-Correlation to the Measurement of Glacier Velocity Using Satellite Image Data, T. A. Scambos, M. J. Dutkiewicz, J. C. Wilson, and R. A. Bindshadler, 42:177
- Identification of Central Kenyan Rift Valley Fever Virus Vector Habitats with Landsat TM and Evaluation of Their Flooding Status with Airborne Imaging Radar, K. O. Pope, E. J. Sheffner, K. J. Linthicum, C. L. Bailey, T. M. Logan, E. S. Kasischke, K. Birney, A. R. Njogu, and C. R. Roberts, 40:185
- Interpretation of SAR Imagery of the Greenland Ice Sheet Using Coregistered TM Imagery, R. Bindshadler and P. Vornberger, 42:167
- Landsat-TM Identification of *Amblyomma variegatum* (Acari: Ixodidae) Habitats in Guadeloupe, M. Hugh-Jones, N. Barre, G. Nelson, K. Wehnes, J. Warner, J. Garvin, and G. Garris, 40:43
- Remote Sensing Application to the Management of Agricultural Drainage Water in Severely Arid Region: A Case Study, W. A. Abderrahman and T. A. Bader, 42:239
- Seasonal LAI in Slash Pine Estimated with Landsat TM, P. J. Curran, J. L. Dungan, and H. L. Gholz, 39:3

Leaf Spectra

- Reflectance Spectroscopy of Fresh Whole Leaves for the Estimation of Chemical Concentration, P. J. Curran, J. L. Dungan, B. A. Macler, S. E. Plummer, D. L. Peterson, 39:153
- Ratio Analysis of Reflectance Spectra (RARS): An Algorithm for the Remote Estimation of the Concentrations of Chlorophyll A, Chlorophyll B, and Carotenoids in Soybean Leaves, E. W. Chapelle, M. S. Kim, and J. E. McMurtrey, III, 39:239

Passive Microwave Radiometry

- Modulation of SSM/I Microwave Soil Radiances by Rainfall, G. M. Heymsfield and R. Fulton, 39:187

Photosynthesis

- Canopy Reflectance, Photosynthesis, and Transpiration. III. A Reanalysis Using Improved Leaf Models and a New Canopy Integration Scheme, P. J. Sellers, J. A. Berry, G. J. Collatz, C. B. Field, and F. G. Hall, 42:187
- A Narrow-Waveband Spectral Index That Tracks Diurnal Changes in Photosynthetic Efficiency, J. A. Gamon, J. Peñuelas, and C. B. Field, 41:35
- Remote Sensing of Vegetation Canopy Photosynthetic and Stomatal Conductance Efficiencies, R. B. Myneni, B. D. Ganapol, and G. Asrar, 42:217
- Spatial Heterogeneity in Vegetation Canopies and Remote Sensing of Absorbed Photosynthetically Active Radiation: A Modeling Study, G. Asrar, R. B. Myneni, and B. J. Choudhury, 41:85
- Spectral Estimates of Absorbed Radiation and Phytomass Production in Corn and Soybean Canopies, C. S. T. Daughtry,

- K. P. Gallo, S. N. Goward, S. D. Prince, and W. P. Kustas, 39:141

Vegetation Canopy PAR Absorbance and the Normalized Difference Vegetation Index: An Assessment Using the SAIL Model, S. N. Goward and K. F. Huemmrich, 39:119

Polarization

- Feasibility Study of Derivation of Cirrus Information Using Polarimetric Measurements from Satellite, K. Masuda and T. Takashima, 39:45

Radar Measurements

- Crop Classification Possibilities with Radar in ERS-1 and JERS-1 Configuration, B. A. M. Bouman and D. Uenk, 40:1
- Identification of Central Kenyan Rift Valley Fever Virus Vector Habitats with Landsat TM and Evaluation of Their Flooding Status with Airborne Imaging Radar, K. O. Pope, E. J. Sheffner, K. J. Linthicum, C. L. Bailey, T. M. Logan, E. S. Kasischke, K. Birney, A. R. Njogu, and C. R. Roberts, 40:185
- Interpretation of SAR Imagery of the Greenland Ice Sheet Using Coregistered TM Imagery, R. Bindshadler and P. Vornberger, 42:167
- Microwave Vegetation Indexes for Detecting Biomass and Water Conditions of Agricultural Crops, S. Paloscia and P. Pampaloni, 40:15
- New Airborne Imaging Radar Observations of Sand Dunes: Kelso Dunes, California, N. Lancaster, L. Gaddis, and R. Greeley, 39:233

Radiation Modeling

- Accuracy and Sensitivity Analyses of SAIL Model-Predicted Reflectance of Maize, D. J. Major, G. B. Schaaije, C. Wiegand, and B. L. Blad, 41:61
- Canopy Reflectance, Photosynthesis, and Transpiration. III. A Reanalysis Using Improved Leaf Models and a New Canopy Integration Scheme, P. J. Sellers, J. A. Berry, G. J. Collatz, C. B. Field, and F. G. Hall, 42:187
- Change of Scale in Models of Remote Sensing: A General Method for Spatialization of Models, M. Raffy, 40:101
- The F_N Method for the One-Angle Radiative Transfer Equation Applied to Plant Canopies, B. D. Ganapol and R. B. Myneni, 39:213
- Interaction of Photons in a Canopy of Finite-Dimensional Leaves, Y. V. Knyazikhin, A. L. Marshak, and R. B. Myneni, 39:61
- Modeled Analysis of the Biophysical Nature of Spectral Shifts and Comparison with Information Content of Broad Bands, F. Baret, S. Jacquemoud, G. Guyot, and C. Leprieux, 41:133
- Modeling Hemispherical and Directional Radiative Fluxes in Regular-Clumped Canopies, A. Bégué, 40:219
- Modeling Spectral and Bidirectional Soil Reflectance, S. Jacquemoud, F. Baret, and J. F. Hanocq, 41:123
- A New Forest Light Interaction Model in Support of Forest

- Monitoring, A. Rosema, W. Verhoef, H. Noorbergen, and J. J. Borgesius, 42:23
- Normalization of Multidirectional Red and NIR Reflectances with the SAVI, A. R. Huete, G. Hua, J. Qi, A. Chehbouni, and W. J. D. van Leeuwen, 41:143
- On the Design and Validation of Surface Bidirectional Reflectance and Albedo Models, B. Pinty and M. M. Verstraete, 41:155
- A Physical Model for Interpreting the Land Surface Temperature Obtained by Remote Sensors over Incomplete Canopies, V. Caselles, J. A. Sobrino, and C. Coll, 39:203
- Remote Sensing of Vegetation Canopy Photosynthetic and Stomatal Conductance Efficiencies, R. B. Myneni, B. D. Gagnopol, and G. Asrar, 42:217
- Spatial Heterogeneity in Vegetation Canopies and Remote Sensing of Absorbed Photosynthetically Active Radiation: A Modeling Study, G. Asrar, R. B. Myneni, and B. J. Choudhury, 41:85
- A Three-Dimensional Radiative Transfer Method for Optical Remote Sensing of Vegetated Land Surfaces, R. B. Myneni, G. Asrar, and F. G. Hall, 41:105
- Vegetation Canopy PAR Absorbance and the Normalized Difference Vegetation Index: An Assessment Using the SAIL Model, S. N. Goward and K. F. Huemmrich, 39:119
- Reflectance**
- Accuracy and Sensitivity Analyses of SAIL Model-Predicted Reflectance of Maize, D. J. Major, G. B. Schaale, C. Wiegand, and B. L. Blad, 41:61
- Bidirectional Calibration Results for 11 Spectralon and 16 BaSO₄ Reference Reflectance Panels, R. D. Jackson, T. R. Clarke, and M. S. Moran, 40:231
- Canopy Reflectance, Photosynthesis, and Transpiration. III. A Reanalysis Using Improved Leaf Models and a New Canopy Integration Scheme, P. J. Sellers, J. A. Berry, G. J. Collatz, C. B. Field, and F. G. Hall, 42:187
- Determination of Phytoplankton Chlorophyll Concentrations in the Chesapeake Bay with Aircraft Remote Sensing, L. W. Harding, Jr., E. C. Itsweire, and W. E. Esaias, 40:79
- Evaluation of Simplified Procedures for Retrieval of Land Surface Reflectance Factors from Satellite Sensor Output, M. S. Moran, R. D. Jackson, P. N. Slater, and P. M. Teillet, 41:169
- Modeling Hemispherical and Directional Radiative Fluxes in Regular-Clumped Canopies, A. Bégué, 40:219
- Modeling Spectral and Bidirectional Soil Reflectance, S. Jacquemoud, F. Baret, and J. F. Hanocq, 41:123
- Multisite Analyses of Spectral-Biophysical Data for Sorghum, A. J. Richardson, C. L. Wiegand, D. F. Wanjura, D. Dusek, and J. L. Steiner, 41:71
- Multisite Analyses of Spectral-Biophysical Data for Wheat, C. L. Wiegand, S. J. Maas, J. K. Aase, J. L. Hatfield, P. J. Pinter, Jr., R. D. Jackson, E. T. Kanemasu, and R. L. Lapitan, 42:1
- Normalization of Multidirectional Red and NIR Reflectances with the SAVI, A. R. Huete, G. Hua, J. Qi, A. Chehbouni, and W. J. D. van Leeuwen, 41:143
- On the Design and Validation of Surface Bidirectional Reflectance and Albedo Models, B. Pinty and M. M. Verstraete, 41:155
- Ratio Analysis of Reflectance Spectra (RARS): An Algorithm for the Remote Estimation of the Concentrations of Chlorophyll A, Chlorophyll B, and Carotenoids in Soybean Leaves, E. W. Chapelle, M. S. Kim, and J. E. McMurtry, III, 39:239
- Reflectance Spectroscopy of Fresh Whole Leaves for the Estimation of Chemical Concentration, P. J. Curran, J. L. Dungan, B. A. MacIer, S. E. Plummer, and D. L. Peterson, 39:153
- Remote Sensing of Surface Hemispherical Reflectance (Albedo) Using Pointable Multispectral Imaging Spectroradiometers, D. S. Kimes and D. W. Deering, 39:85
- Sand Dunes**
- New Airborne Imaging Radar Observations of Sand Dunes: Kelso Dunes, California, N. Lancaster, L. Gaddis, and R. Greeley, 39:233
- Scale**
- Change of Scale in Models of Remote Sensing: A General Method for Spatialization of Models, M. Raffy, 40:101
- Sensor Calibration**
- An Algorithm for the Radiometric and Atmospheric Correction of AVHRR Data in the Solar Reflective Channels, P. M. Teillet, 41:185
- Bidirectional Calibration Results for 11 Spectralon and 16 BaSO₄ Reference Reflectance Panels, R. D. Jackson, T. R. Clarke, and M. S. Moran, 40:231
- Calibration of the NOAA AVHRR Shortwave Channels Using Split Pass Imagery: I. Pilot Study, R. M. Mitchell, D. M. O'Brien, and B. W. Forgan, 40:57
- On the Design and Validation of Surface Bidirectional Reflectance and Albedo Models, B. Pinty and M. M. Verstraete, 41:155
- Remote Sensing of Surface Hemispherical Reflectance (Albedo) Using Pointable Multispectral Imaging Spectroradiometers, D. S. Kimes and D. W. Deering, 39:85
- SPOT Calibration at the La Crau Test Site (France), R. Santer, X. F. Gu, G. Guyot, J. L. Deuzé, C. Devaux, E. Vermote, and M. Verbrugge, 41:227
- Survey of Radiometric Calibration Results and Methods for Visible and Near Infrared Channels of NOAA-7, -9, and -11 AVHRRs, N. Che and J. C. Price, 41:19
- Soil**
- Infrared (8–14 μ m) Remote Sensing of Soil Particle Size, J. W. Salisbury and D. M. D'Aria, 42:157
- Modeling Spectral and Bidirectional Soil Reflectance, S. Jac-

quemoud, F. Baret, and J. F. Hanocq, 41:123

Modulation of SSM/I Microwave Soil Radiances by Rainfall, G. M. Heymsfield and R. Fulton, 39:187

Spectral Indices

Crop Classification Possibilities with Radar in ERS-1 and JERS-1 Configuration, B. A. M. Bouman and D. Uenk, 40:1

A Narrow-Waveband Spectral Index That Tracks Diurnal Changes in Photosynthetic Efficiency, J. A. Gamon, J. Peñuelas, and C. B. Field, 41:35

Vegetation Canopy PAR Absorbance and the Normalized Difference Vegetation Index: An Assessment Using the SAIL Model, S. N. Goward and K. F. Huemmrich, 39:119

Spectroscopy

Analysis of High Resolution Multispectral MEIS Imagery for Spruce Budworm Damage Assessment on a Single Tree Basis, D. G. Leckie, X. Yuan, D. P. Ostaff, H. Piene, and D. A. MacLean, 40:125

Cokriging with Ground-Based Radiometry, P. M. Atkinson, R. Webster, and P. J. Curran, 41:45

Cumulus Cloud Radiative Properties and the Characteristics of Satellite Radiance Wavenumber Spectra, H. W. Barker and J. A. Davies, 42:51

Derivative Reflectance Spectroscopy to Estimate Suspended Sediment Concentration, Z. Chen, P. J. Curran, and J. D. Hansom, 40:67

The Effect of Spectral Bandwidth and Positioning on the Spectral Signature Analysis of Inland Waters, A. G. Dekker, T. J. Malthus, M. M. Wijnen, and E. Seyhan, 41:211

Modeled Analysis of the Biophysical Nature of Spectral Shifts and Comparison with Information Content of Broad Bands, F. Baret, S. Jacquemoud, G. Guyot, and C. Leprieur, 41:133

Ratio Analysis of Reflectance Spectra (RARS): An Algorithm for the Remote Estimation of the Concentrations of Chlorophyll A, Chlorophyll B, and Carotenoids in Soybean Leaves, E. W. Chapelle, M. S. Kim, and J. E. McMurtrey, III, 39:239

Reflectance Spectroscopy of Fresh Whole Leaves for the Estimation of Chemical Concentration, P. J. Curran, J. L. Dungan, B. A. MacIer, S. E. Plummer, and D. L. Peterson, 39:153

SPOT

A Comparison of Spatial Feature Extraction Algorithms for Land-Use Classification with SPOT HRV Data, P. Gong, D. J. Marcneau, and P. J. Howarth, 40:137

Estimating the Extent of Floods in Bangladesh Using SPOT DATA, F. Blasco, M. F. Bellan, and M. U. Chaudhury, 39:167

Geological Analysis of SPOT Imagery at the 1:25,000 Scale: Example of the Eastern Part of the Gabian Petroleum Structure in Southeastern France, A. Mekarnia and J. Chorowicz, 39:179

SPOT Calibration at the La Crau Test Site (France), R. Santer,

X. F. Gu, G. Guyot, J. L. Deuzé, C. Devaux, E. Vermote, and M. Verbrugghe, 41:227

SPOT Satellite Monitoring of the Eruption of Nevado Sabancaya Volcano (Southern Peru), J. Chorowicz, B. Deffontaines, D. Huaman-Rodrigo, R. Guillaude, F. Leguern, and J. C. Thouret, 42:43

Thermal Measurements

Accurate Land Surface Temperature Retrieval from AVHRR Data with Use of an Improved Split Window Algorithm, Y. H. Kerr, J. P. Lagouarde, and J. Imbermon, 41:197

Application of Terrestrial Thermography to the Detection of Waste-Disposal Sites, E. Zilioli, M. A. Gomasasca, and R. Tomasoni, 40:153

A Comparison of Techniques for Extracting Emissivity Information from Thermal Infrared Data for Geologic Studies, S. J. Hook, A. R. Gabell, A. A. Green, and P. S. Kealy, 42:123

Enhancement of Multispectral Thermal Infrared Images: Decorrelation Contrast Stretching, A. R. Gillespie, 42:147

Estimation of Land Surface Temperature with NOAA9 Data, C. Ottlé and D. Vidal-Madjar, 40:27

Infrared (8–14 μ m) Remote Sensing of Soil Particle Size, J. W. Salisbury and D. M. D'Aria, 42:157

A Physical Model for Interpreting the Land Surface Temperature Obtained by Remote Sensors over Incomplete Canopies, V. Caselles, J. A. Sobrino, and C. Coll, 39:203

Separation of Temperature and Emittance in Remotely Sensed Radiance Measurements, A. B. Kahle and R. E. Alley, 42:107

Spectral Mixture Analysis of Multispectral Thermal Infrared Images, A. R. Gillespie, 42:137

Spectral Ratio Method for Measuring Emissivity, K. Watson, 42:113

Two-Temperature Method for Measuring Emissivity, K. Watson, 42:117

Vegetation Reflectance

Estimating Vegetation Amount from Visible and Near Infrared Reflectances, J. C. Price, 41:29

Interaction of Photons in a Canopy of Finite-Dimensional Leaves, Y. V. Knyazikhin, A. L. Marshak, and R. B. Myneni, 39: 61

Multisite Analyses of Spectral-Biophysical Data for Sorghum, A. J. Richardson, C. L. Wiegand, D. F. Wanjura, D. Dusek, and J. L. Steiner, 41:71

Multisite Analyses of Spectral-Biophysical Data for Wheat, C. L. Wiegand, S. J. Maas, J. K. Aase, J. L. Hatfield, P. J. Pinter, Jr., R. D. Jackson, E. T. Kanemasu, and R. L. Lapitan, 42:1

Normalization of Multidirectional Red and NIR Reflectances with the SAVI, A. R. Huete, G. Hua, J. Qi, A. Chehbouni, and W. J. D. van Leeuwen, 41:143

On the Design and Validation of Surface Bidirectional Reflectance and Albedo Models, B. Pinty and M. M. Verstraete, 41:155

Ratio Analysis of Reflectance Spectra (RARS): An Algorithm for the Remote Estimation of the Concentrations of Chlorophyll A, Chlorophyll B, and Carotenoids in Soybean Leaves, E. W. Chapelle, M. S. Kim, and J. E. McMurtrey, III, 39:239

Reflectance Spectroscopy of Fresh Whole Leaves for the Estimation of Chemical Concentration, P. J. Curran, J. L. Dungan, B. A. MacIer, S. E. Plummer, and D. L. Peterson, 39:153

Spectral Blue-Shift of Red Edge Monitors Damage Class of Beech Trees, E. Hoque and P. J. S. Hutzler, 39:81

Spectral Estimates of Absorbed Radiation and Phytomass Production in Corn and Soybean Canopies, C. S. T. Daughtry, K. P. Gallo, S. N. Goward, S. D. Prince, and W. P. Kustas, 39:141

Vegetation Stress

Analysis of High Resolution Multispectral MEIS Imagery for Spruce Budworm Damage Assessment on a Single Tree Basis, D. G. Leckie, X. Yuan, D. P. Ostaff, H. Piene, and D. A. MacLean, 40:125

Spectral Blue-Shift of Red Edge Monitors Damage Class of Beech Trees, E. Hoque and P. J. S. Hutzler, 39:81

Water

Cumulus Cloud Radiative Properties and the Characteristics of Sat-

ellite Radiance Wavenumber Spectra, H. W. Barker and J. A. Davies, 42:51

Derivative Reflectance Spectroscopy to Estimate Suspended Sediment Concentration, Z. Chen, P. J. Curran, and J. D. Hansom, 40:67

Determination of Phytoplankton Chlorophyll Concentrations in the Chesapeake Bay with Aircraft Remote Sensing, L. W. Harding, Jr., E. C. Itsweire, and W. E. Esaias, 40:79

The Effect of Spectral Bandwidth and Positioning on the Spectral Signature Analysis of Inland Waters, A. G. Dekker, T. J. Malthus, M. M. Wijnen, and E. Seyhan, 41:211

Estimating the Extent of Floods in Bangladesh Using SPOT DATA, F. Blasco, M. F. Bellan, and M. U. Chaudhury, 39:167

Remote Sensing Application to the Management of Agricultural Drainage Water in Severely Arid Region: A Case Study, W. A. Abderrahman and T. A. Bader, 42:239

Remote Sensing of Lake Chicot, Arkansas: Monitoring Suspended Sediments, Turbidity, and Secchi Depth with Landsat MSS Data, J. A. Harrington, Jr., F. R. Schiebe, and J. F. Nix, 39:15

Specific Absorption and Backscattering Spectra for Suspended Minerals and Chlorophyll-a in Chilko Lake, British Columbia, E. A. Gallie and P. A. Murtha, 39:103

